

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P281447

Luminaire Tested: **LDA2B058030D010 EU2B05SP158030 2LBASQC1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B058030D010 EU2B05SP158030 2LBASQC1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 796.4 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

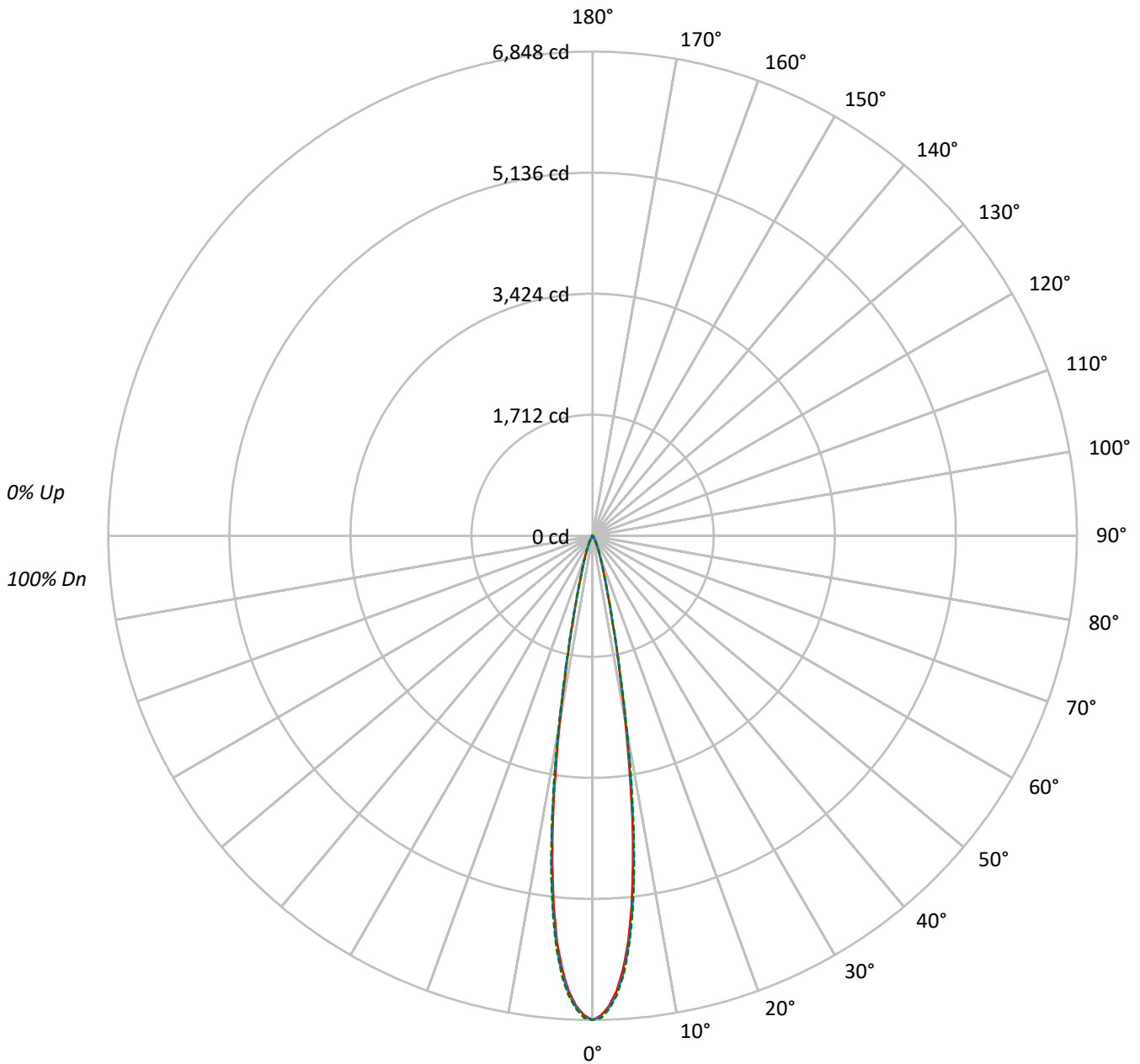
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	99	98	98	98	98																
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	96	96	96																
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	94	94	94																
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	92	92	92																
5	105	100	96	94	103	99	96	93	97	95	93	96	94	92	95	93	91	90	90	90	90																
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	89	89	89																
7	100	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	87	87	87																
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	86	86	86	86																
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	84	84	84																
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	83	83	83																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3378690	3378690	3378690
5°	2859651	2889564	2902094
10°	1337196	1387895	1390600
15°	391655	397376	397171
20°	157297	157507	157665
25°	70114	77245	71802
30°	29795	40960	27174
35°	13672	18972	12768
40°	4444	7406	3993
45°	0	2651	0
50°	0	0	0
55°	1290	688	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	2273	0	0
85°	4529	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.6	56.8
10°-20°	256.5	32.2
20°-30°	67.0	8.4
30°-40°	17.3	2.2
40°-50°	1.7	0.2
50°-60°	0.6	0.1
60°-70°	0.1	0.0
70°-80°	0.6	0.1
80°-90°	0.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	776.1	97.5
0°-40°	793.3	99.6
0°-60°	795.6	99.9
0°-90°	796.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	796.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6848	6848	6848	6848	6848	
5°	5774	5826	5835	5798	5860	447
15°	767	777	778	769	778	252
25°	129	140	142	135	132	64
35°	23	24	32	22	21	16
45°	0	2	4	0	0	1
55°	2	2	1	0	0	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	2
85°	1	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6848.3	6848.3	6848.3	6848.3	6848.3
1°	6784.0	6811.0	6802.9	6793.3	6820.2
2°	6653.3	6679.4	6677.1	6664.5	6696.0
3°	6451.8	6488.3	6488.3	6469.5	6508.7
4°	6151.4	6207.2	6212.6	6186.1	6234.9
5°	5774.2	5825.7	5834.6	5797.6	5859.9
6°	5263.1	5333.5	5353.5	5310.8	5374.6
7°	4675.9	4749.7	4780.1	4732.4	4803.9
8°	4042.5	4095.6	4132.1	4077.5	4150.2
9°	3333.8	3410.3	3443.7	3390.7	3461.4
10°	2669.2	2739.6	2770.4	2757.7	2775.8
11°	2073.2	2135.5	2156.2	2138.9	2147.4
12°	1623.2	1648.2	1661.7	1650.2	1655.9
13°	1232.5	1266.0	1272.1	1267.1	1269.8
14°	962.6	978.7	985.6	983.3	984.5
15°	766.8	777.2	778.0	769.1	777.6
16°	617.6	625.7	629.1	619.9	631.1
17°	506.1	512.6	516.5	507.2	511.9
18°	416.5	421.5	426.9	418.8	425.7
19°	349.6	352.6	353.0	350.7	352.6
20°	299.6	298.0	300.0	295.7	300.3
22.5°	197.3	201.1	205.7	200.7	202.7
25°	128.8	139.6	141.9	135.4	131.9
26°	106.1	120.0	126.1	115.8	104.6
27°	88.1	98.1	106.1	92.3	83.4
28°	77.3	85.8	93.8	80.8	70.4
29°	64.6	73.1	86.9	71.9	65.4
30°	52.3	58.5	71.9	54.6	47.7
32.5°	29.6	34.6	46.5	32.3	26.5
35°	22.7	24.2	31.5	21.5	21.2
37.5°	19.6	17.7	24.6	17.7	14.2
40°	6.9	10.4	11.5	7.7	6.2
42.5°	3.1	3.1	5.0	1.5	1.5
45°	0.0	1.5	3.8	0.4	0.0
47.5°	0.0	0.0	0.8	0.0	0.0
50°	0.0	0.8	0.0	0.0	0.0
52.5°	0.8	0.0	0.0	0.0	0.0
55°	1.5	1.9	0.8	0.4	0.0
57.5°	2.3	1.9	0.8	0.8	0.8
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.8	0.4	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.4	0.0	0.0	0.0
77.5°	3.8	0.8	1.2	0.8	1.5
80°	0.8	0.0	0.0	0.0	0.0
82.5°	1.5	0.0	0.0	0.0	0.0
85°	0.8	0.0	0.0	0.0	0.0
87.5°	0.0	0.4	0.0	0.4	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







70°	0.0	0.0	0.0	0.0	0.0
72.5°	1.5	1.2	0.0	0.0	1.5



(END OF REPORT)